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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/730,708	12/06/2000	Martin C. Green	96005CIP	7994

7590 10/23/2002

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EXAMINER

HENDRICKSON, STUART L

ART UNIT	PAPER NUMBER
1754	6

DATE MAILED: 10/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 13078	Applicant(s) green
	Examiner H. B. K.	Group Art Unit 113

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

Responsive to communication(s) filed on 10/19/01

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

Claim(s) 1-14 is/are pending in the application.

Of the above claim(s) 1-14 is/are withdrawn from consideration.

Claim(s) 1-6 is/are allowed.

Claim(s) 1-6 is/are rejected.

Claim(s) 1-6 is/are objected to.

Claim(s) 1-14 are subject to restriction or election requirement

Application Papers

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).

All Some* None of the:

Certified copies of the priority documents have been received.

Certified copies of the priority documents have been received in Application No. _____.

Copies of the certified copies of the priority documents have been received
in this national stage application from the International Bureau (PCT Rule 17.2(a))

*Certified copies not received: _____

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). 5 Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892 Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948 Other _____

Office Action Summary

Art Unit: 1754

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, drawn to a process, classified in class 423, subclass 450.
- II. Claims 11-14, drawn to an apparatus, classified in class 422, subclass 150.

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used to practice a materially different process, like making silica or combusting hazardous waste.

In so far as this application falls under the PCT lack of unity rules, it is noted that the special technical feature of the process is the blanketing, which is a process limitation and thus cannot be an apparatus limitation. Thus, no special patentable feature links the groups. The process is rejected, below, as well.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Kilyk on 10/17/02 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-10. Affirmation of this election must be made by applicant in replying to this Office action. Claims 11-14 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 1754

- A) In claims 1 and 6, 'after' is unclear as to whether time or distance is meant. 'downstream' (if intended) is suggested.
- B) In claims 2-10, 'axially' is unclear as to whether the stream has to be completely axially injected, or whether the nozzle must be axially located.
- C) In claims 3 and 8, 'a swirling pattern' or the like appears intended. Perhaps 'is introduced with' should be deleted. The claim implies that a swirl is a thing which is injected.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Austin '487.

Austin teaches in column 4 and fig. 1 injecting 'cool' combustion gas to shield the process gas.

Claims 1, 2, 6, 7, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Dahmen et al.

Dahmen teaches in column 4 and fig. 1 blanketing process gas with downstream combustion gas, injected axially. The widened portion can be considered a 'stage' (after stages 25 and 5).

Austin '192, GB '315 are germane but not used to avoid multiplicity of rejection.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (703) 308-2539.



Stuart Hendrickson
examiner Art Unit 1754